

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-232509

(43)Date of publication of application : 10.09.1993

(51)Int.Cl. G02F 1/136
 G02F 1/133
 G02F 1/1343
 H01L 27/12
 H01L 29/784

(21)Application number : 04-035279

(71)Applicant : SANYO ELECTRIC CO LTD

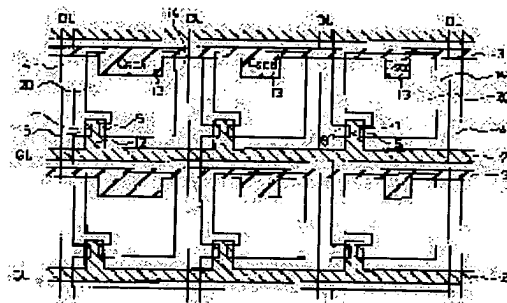
(22)Date of filing : 21.02.1992

(72)Inventor : NISHIKAWA RYUJI

(54) LIQUID CRYSTAL DISPLAY DEVICE**(57)Abstract:**

PURPOSE: To suppress a brightness gradient and a partial flicker and to obtain a uniform display by forming an auxiliary capacity electrode large on the gate-signal input side of a gate line and small at the far end.

CONSTITUTION: Many gate lines GL2 are provided on a glass substrate in parallel to a lateral-axis direction, and auxiliary capacity lines 3 and auxiliary capacity electrodes 13 which are connected thereto are provided along the gate lines GL2. The gate lines GL3 and auxiliary capacity electrodes 13 are formed by vapor-depositing Mo-Ta alloy, etc. Then the auxiliary capacity electrodes 13 are extended to below picture element electrodes 20 from the auxiliary capacity lines 3 and the size is large on the gate signal input side, smaller on the intermediate side than on the input side, and smallest at the far end. Consequently, auxiliary capacitances are formed at the overlap parts of the picture element electrodes 20 and auxiliary capacity electrodes 13 so that $CSCA > CSCB > CSCC$, thereby compensating electric charging characteristics and coupling-down ΔV even if a gate signal attenuates at the far end.

**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office